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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
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BUB/CTE/2016-17/

1. TESTING OF FINE AGGREGATES: **Date: 04-04-2016**

Sub: Testing of Fine Aggregates.

{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

Ref.: Letter No. Testing/BUB/2016-17, dated 01-04-2016

Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.

Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.20	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	84.20	60-95	75-100	85-100	
01.18	73.60	30-70	55-90	75-100	
600. mic	42.30	15-34	35-59	60-79	
300.mic	18.00	5-20	8-30	12-40	
150.mic	2.90	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.43 %	Not more than 8%
2.	Specific Gravity	----	2.54	-------

*As furnished by Client.

The Results relate only to the items tested.

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4/4/2016
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BUB/CTE/2016-17/

1. TEST REPORT ON CEMENT:

Date: 11-04-2016

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}
Ref.: Letter No. Testing/BUB/2016-17, dated 01-04-2016
Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.
Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super
Grade * : 53
Type * : OPC
Date : 02-04-2016 to 09-04-2016

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**170 min**	Shall not be less than 30 min
2	Final setting time	**275 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.31%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.42mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**29.60 Sq mm** **43.40N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

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BUB/CTE/2016-17/

Date: 04-04-2016

1. TEST REPORT ON REINFORCEMENT STEEL :

Sub: Testing of Reinforcement Steel of diameter 10mm.
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

Ref.: Letter No. Testing/BUB/2016-17, dated 01-04-2016

Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.

Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

TABLE – 1

SL No	Details	For 10 mm	
		Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**10.0mm**	10.0mm
02	Observed Wt/m Length **Kg/m**	**0.620**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**554.0**	500.0
04	Bend/ Re bend Test	**Ok**	---
05	Percentage of Elongation, %	**19.70**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**648.0**	545.0

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BUB/CTE/2016-17/

1. TESTING OF COARSE AGGREGATES (40 mm): **Date: 04-04-2016**

Sub: Testing of Coarse Aggregates.
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}
Ref.: Letter No. Testing/BUB/2016-17, dated 01-04-2016
Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.
Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	98.50	85-100	95 – 100
20mm	39.00	0 -20	30- 70
10mm	18.50	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 1 2 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	15.40%	Not to exceed 25 %
2.	Crushing value	----,,----	26.40 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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The Results relate only to the items tested.

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BUB/CTE/2016-17/

DATE: 14-05-2016

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (28days Compressive Strength)
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

Ref.: Letter No. Testing/BUB/2016-17, dated 13-05-2016

Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.

Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-16	13-05-16	28	22500	520	23.11	**23.33**
	002	"	"	"	"	530	23.55	
	003	"	"	"	"	525	23.33	

*As Furnished by Client.

The Results relate only to the items tested.

14/05/2016

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BUB/CTE/2016-17/

DATE: 26-04-2016

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (07days Compressive Strength)
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}
Ref.: Letter No. Testing/BUB/2016-17, dated 25-04-2016
Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.
Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Drain

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-16	25-04-16	07	22500	390	17.33	17.29
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	390	17.33	

*As Furnished by Client.
The Results relate only to the items tested.

AE-06 n/a 26/4

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Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Drain

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-16	25-04-16	07	22500	385	17.11	**16.96**
	002	"	"	"	"	375	16.66	
	003	"	"	"	"	385	17.11	

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BUB/CTE/2016-17/

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1. TEST REPORT ON CEMENT CONCRETE CUBES :

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{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-16	25-04-16	07	22500	385	17.11	**17.03**
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	385	17.11	

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Drain

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-16	25-04-16	07	22500	370	16.44	**16.58**
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	370	16.44	

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Drain

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-04-16	25-04-16	07	22500	385	17.11	**17.03**
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	385	17.11	

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RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-16	23-04-16	07	22500	395	17.55	**17.40**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	395	17.55	

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Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	16-04-16	23-04-16	07	22500	390	17.33	**17.18**
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	390	17.33	

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1. TEST REPORT ON CEMENT CONCRETE CUBES :

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{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

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Report required for: Assistant Executive Engineer,
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Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-16	22-04-16	07	22500	400	17.77	**17.69**
	002	"	"	"	"	395	17.55	
	003	"	"	"	"	400	17.77	

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Report required for: Assistant Executive Engineer,
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Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M20
Location Concrete* : CC Road

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-04-16	22-04-16	07	22500	375	16.66	**16.73**
	002	"	"	"	"	380	16.88	
	003	"	"	"	"	375	16.66	

*As Furnished by Client.

The Results relate only to the items tested.

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JNANA BHARATHI
BANGALORE - 560 056

BUB/CTE/2016-17/

DATE: 21-04-2016

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (07days Compressive Strength)
{Project*: Improvements to Roads and Drains at Bharathnagar Baloon Factory in Ward No.6 Byatarayanapura Sub-Division}

Ref.: Letter No. Testing/BUB/2016-17, dated 20-04-2016

Report required for: Assistant Executive Engineer,
Byatarayanapura , Sub-Division
BBMP, Bangalore.

Sample Supplied to lab by : Sri. Y B Ramesh Contractor ,Bangalore

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{15}
Location Concrete* : Coping Concrete

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	13-04-16	20-04-16	07	22500	300	13.33	**13.25**
	002	"	"	"	"	295	13.11	
	003	"	"	"	"	300	13.33	

*As Furnished by Client.

The Results relate only to the items tested.

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